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into a *Streptomyces* host, cultivating the recombinant strain obtained, and isolating the compounds produced.

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12. (Amended) A process for the production of hybrid compounds, comprising transferring at least one of the genes selected from the group consisting of *snogJ*, *snogA*, *snoaM*, *snogN*, *snoaG*, *snogC*, *snogK*, *snoaL*, *snoK*, *snogD*, *snoW*, *snogE*, *snoL*, *snoO* and *snoaF* into a *Streptomyces* host, said genes being derived from the DNA fragment of claim 1, cultivating the recombinant strain obtained, and isolating the compounds produced.

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16. (New) A recombinant DNA, which comprises the DNA fragment according to claim 2, cloned in a plasmid replicating in *Streptomyces*.

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17. (New) The recombinant DNA according to claim 16, which is the plasmid pSY15c, comprising a 1.4 kb *Bam*HI-*Sac*I fragment from the plasmid pSY42 and a 1.1 kb *Mlu*I-*Kpn*I fragment from the plasmid pSY43.

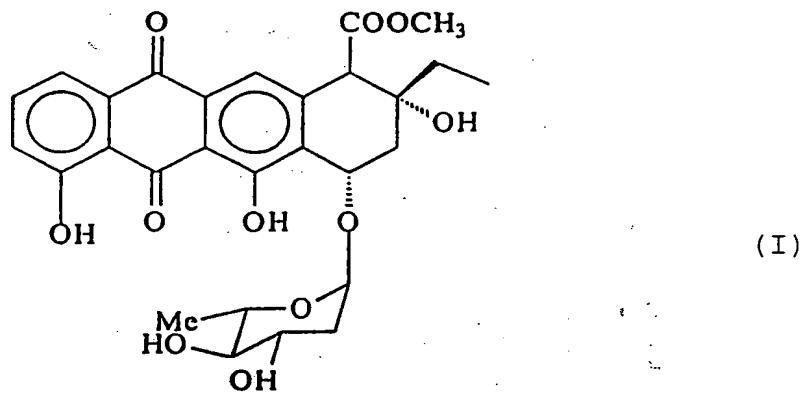
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18. (New) A process for the production of hybrid compounds, comprising transferring the DNA fragment according to claim 2 into a *Streptomyces* host, cultivating the recombinant strain obtained, and isolating the compounds produced.

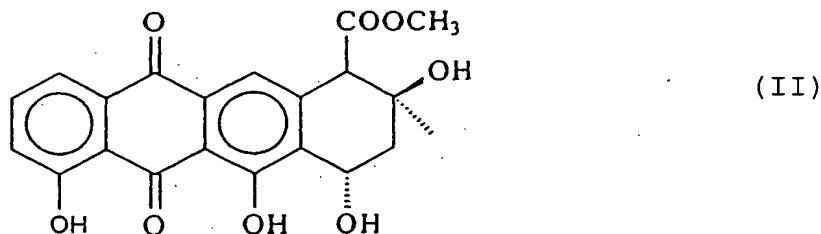
19. (New) The process according to claim 18, wherein the *Streptomyces* host is a *Streptomyces galilaeus* host.

20. (New) The process according to claim 19, wherein the *Streptomyces galilaeus* host is selected from the strains H026, H039, H063 and H075, which are mutant strains of *S. galilaeus* ATCC 31615.

21. (New) The process according to claim 19, wherein an anthracycline is produced, which has the following formula I



22. (New) The process according to claim 19, wherein an anthracyclinone is produced, which has the following formula II



23. (New) A process for the production of hybrid compounds, comprising transferring at least one of the genes selected from the group consisting of *snogJ*, *snogA*, *snoaM*, *snogN*, *snoaG*, *snogC*, *snogK*, *snoaL*, *snoK*, *snogD*, *snoW*, *snogE*, *snoL*, *snoO* and *snoaF* into a *Streptomyces* host, said genes being derived from the DNA fragment of claim 2, cultivating the recombinant strain obtained, and isolating the compounds produced.

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24. (New) The process according to claim 23, wherein the gene *snoaL* encoding NAME cyclase is transferred into a *Streptomyces* host.

25. (New) The process according to claim 23, wherein at least one of the genes *snogD* and *snogE* encoding glycosyl transferases is transferred into a *Streptomyces* host.

26. (New) The process according to claim 23, wherein at least one of the genes *snogJ*, *snogN*, *snogC*, *snogK* and *snogA* affecting the formation of nogalamine and nogalose is transferred into a *Streptomyces* host.

IN THE ABSTRACT:

Please amend the Application to include the attached Abstract of the Disclosure on a separate page following the claims.